

ABSTRACT OF THE DISCLOSURE

A method for controlling the flow rate of an oxidizer in a fuel cell system having a fuel cell stack being supplied with fuel and the oxidizer, a compressor for supplying the oxidizer to the fuel cell stack, a back pressure valve for controlling pressure of the oxidizer, and a control device for controlling the fuel cell stack, the compressor, and the back pressure valve. The method includes the steps of calculating an oxidizer pressure command and an oxidizer flow rate command based on a given electrical current command, comparing a first flow rate that is defined as an upper limit of oxidizer flow rate and a second flow rate that is defined as a lower limit of oxidizer flow rate with the oxidizer flow rate command, and regulating the oxidizer flow rate command so as to be limited within a range from the second flow rate to the first flow rate.